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# Report to the Department for Business, Energy and Industrial Strategy

Use of funding for the financial year 1 April 2016 to 31 March 2017

# Contents

# 1. Introduction

As the UK National Standards Body (NSB), BSI represents UK economic and social interests at the European and international standards organizations CEN, CENELEC, ETSI, ISO and IEC. We manage the national standards-making process, providing a service for organizations of all sizes and sectors to develop market-led voluntary consensus standards through open public consultation and full stakeholder engagement. Our relationship with Her Majesty's Government (HMG) is constituted through a memorandum of understanding (MoU)[1] that sets out our role as the NSB.

The importance of standards to the European Commission in supporting EU legislation is highlighted on the Growth area of its website: "Standardisation has played a leading role in creating the EU Single Market. Standards support market-based competition and help ensure the interoperability of complementary products and services. They reduce costs, improve safety, and enhance competition. Due to their role in protecting health, safety, security, and the environment, standards are important to the public. The EU has an active standardization policy that promotes standards as a way to better regulation and enhance the competitiveness of European industry."[2] Active participation in European standards organizations safeguards UK interests by ensuring that standards used to demonstrate compliance with European Directives are acceptable to UK stakeholders.

This report focuses on our use of HMG funding. During 2016/17 we continued to implement our strategy of providing a clear market sector focus for our standardization work programme. This enables timely and effective solutions tailored to the needs of businesses trading in the UK and overseas, while supporting associated UK Government priorities. HMG funds activities in key areas of public policy interest and priority areas such as innovation.

The overall allocation for the funding year 2016/17 was £3,955k. Total expenditure on these activities exceeded the allocation. Our traditional fund-associated NSB activities were supplemented by Committee Member training, awareness-raising, higher education work and initiatives with other standards bodies that are developing a standards infrastructure.

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[1] https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/461415/Memorandum_of _Understanding.pdf

[2] https://ec.europa.eu/growth/single-market/european-standards/policy_en

# 2. Overview of funded activities

Funded activity falls into in three main areas:

**Influence and leadership** supports the infrastructure necessary for the UK to participate in European and international standardization. The fund includes a subscription fee that gives all HMG departments and their agencies a large discount when buying standards published by BSI.

**Support for standards development** covers activities relating to developing standards content. Most of the total funding is made available for activities in areas that promote key HMG policies, such as competitiveness, innovation, reduction of trade barriers, protection of consumer interests, environmental protection and procurement.

BEIS funding contributed towards programme-management support for 134 UK standards technical committees in 2016/17. Their programmes overwhelmingly comprise European and international work, with a small proportion of national work. We continued to act as the gateway for UK parties to take part in international standardization, through our Committee Service Centre (CSC).

In 2016/17, BEIS-funded UK standards technical committees, including those managed via our CSC, facilitated publication of 1,672 new and updated standards. Please refer to Appendix 1 for details of the committees supported.

**Support for participation in standardization** enables UK experts to participate in European and international standards work by contributing towards their travel costs. Making sure that UK delegates attend overseas standards meetings is often key to ensuring that UK interests are represented when European and international standards are created or updated. This funding stream also helps ensure continued consumer participation in standardization by providing support towards travel to standards committee meetings, as well as recruitment and training, for our network of consumer representatives.

During the year, BEIS funding contributed to the travel costs of 2,424 trips to overseas European and international standardization meetings made by experts participating on behalf of the UK.

## BEIS funding to BSI 2016/17

| | Original funding allocation (£k) | Agreed movement of funds (£k) | Final funding allocation (£k) |
|---|---|---|---|
| **Influence and leadership (Subscriptions)** | | | |
| **BSI membership for HMG** | 365 | 0 | 365 |
| **Contribution to membership of ISO/IEC/CEN/CENELEC** | 500 | 0 | 500 |
| **TOTAL** | **865** | **0** | **865** |
| **Support for standards development** | | | |
| **General (NSB activity & public interest) standards development (incl. Staff Travel Fund)** | 1,186 | (15) | 1,171 |
| **Priority Areas Standards Development** | 750 | 0 | 750 |
| **Management fee** | 54 | 0 | 54 |
| **TOTAL** | **1,990** | **(15)** | **1,975** |
| **Support for participation in standardization** | | | |
| **Assisted International Travel Scheme (AITS)** | 1,017 | 21 | 1,038 |
| **Support for consumer & public interest participation in standardization (CPITEF)** | 83 | (6) | 77 |
| **TOTAL** | **1,100** | **15** | **1,115** |
| **TOTAL FUNDING** | **3,955** | **3,955** | **3,955** |

# 3. Influence and leadership (Subscriptions)

## 3.1. BSI membership for HMG

→ A central BSI membership agreement enables HMG departments and agencies to access standards in a cost-effective manner, while enjoying other BSI membership benefits such as advisory and information services.

→ As the lead HMG department working with BSI, BEIS has access to British Standards Online (BSOL) - the online database that makes using standards easier and more effective - for department use only.

During the funding year 2016/17 all HMG departments and agencies were given access to BSI member services, including:

- 50% off British Standards (including adopted European and international standards)
- 50% off subscription products, including the online database British Standards Online (BSOL)
- 10% off international (ISO) and non-UK standards (e.g. DIN German standards)
- 50% off many of BSI's conferences on important business topics
- Free postage and packing when buying hard copy standards
- Credit when purchasing standards
- Access to the Private List Updating Service (i.e. validation and tracking of a standards list provided by the member, with new versions sent automatically when updated)
- Expert help from the BSI Knowledge Centre, including advanced subject searches and fast identification of international equivalents from more than 200 standards organizations in 23 countries

We continue to work with BEIS to promote standardization within government. As part of their membership, we continue to manage several government departments as key accounts, where our account managers work closely with HMG contacts to develop a productive relationship, ensuring individual department and agency requirements are met.

## 3.2. Contribution to membership of ISO/IEC/CEN/CENELEC

This fund supports UK obligations under European Regulation 1025/2012, which aims to prevent the creation of new technical barriers to trade. The purpose of our activity is to:

→ Ensure that we maintain an appropriate presence on key international and European committees and forums, to enable the UK to influence standards policy.

→ Ensure that UK obligations under European Regulation 1025/2012 have been fulfilled.

## Overview

BEIS makes a contribution to our membership of the international and European standards bodies (ISO, IEC, CEN and CENELEC), which represents direct support to the standards infrastructure. Our membership of these organizations enables the UK to maintain a standards infrastructure that is consistent with European standards policy, as required by the MoU between BSI and HMG. Membership of these organizations also opens gateways for international discussions, enabling UK stakeholders to participate in the development of international and European standards, while enabling the UK to influence at a high level the policies and strategies of these organizations.

Under European Regulation 1025/2012, EU member states must give notification of any new national standards being developed. This year, 68 new British Standards projects were reported to CEN/CENELEC.

We participate in all key policy development committees of the international and European standards organizations, including administrative boards and technical boards. We also provide leadership by holding the secretariats of international standards committees in key areas for the UK such as Environmental Management Systems, Asset Management, Risk Management, Governance of Organizations, Health and Safety, and Vulnerable Consumers, and supporting convenors of high profile Working Groups in areas such as Building Information Modelling (BIM).

During the year, the Director of Standards Dr Scott Steedman was appointed as the Vice President (Policy) of ISO, becoming the first UK Vice-President since 1988. Initially this will be a one-year term (completing the out-going Vice President Policy's term), with the intention of commencing an official two year term in 2018. In this role, Dr Steedman will chair the selection panel for the appointment of the new ISO Secretary General, chair the ISO Strategy and Policy Committee, and take the lead in the development of ISO's overall strategy for the next four years.

## CEN, CENELEC and ETSI

Preparations continued during the year for BSI to host the Annual General Meetings (AGMs) and the Board meetings of CEN and CENELEC in Edinburgh. This event

provided an opportunity for BSI to show thought leadership and demonstrate the organisation's continued commitment to the European standards system. In addition, plans were made for BSI to host a further day of talks entitled 'Standards Matter', consisting of debates, panel discussions and exhibitor stands following the AGMs.

BSI continues to hold full membership of ETSI, the third of the European Standardization Organizations (those organizations authorized to use the EN designation), that specializes in ICT standards.

On 1st June 2016, the European Commission formally launched the Joint Initiative on Standardization. This was signed by the European Standards Organizations, NSBs, some national governments and stakeholder organizations. The Joint Initiative comprises 15 actions, with a number of associated projects. Over the course of the funding year, the Joint Initiative progressed smoothly, with BSI closely supporting Action 1 (study on economic and societal benefits of standards), Action 2 (standards, research and innovation), Action 3 (education on standardization), Action 8 (timely delivery of standards and citation in the Official Journal), Action 9 (inclusiveness at European level), Action 10 (inclusiveness at national level), Action 11 (public procurement), Action 12 (service standards), Action 13 (international engagement) and Action 15 (SMEs).

In January 2017 BSI provided a required annual report to CEN, CENELEC and ETSI under EU Regulation 1025/2012, covering transparency in national standards, use of ICT, and involvement of SMEs, environmental stakeholders, consumers and unions in national standards development committees.

## UK engagement

We continued to organize Standards Forum events around the country for BSI committee members.  Events were held in Cambridge (April 2016), Belfast (May 2016) and London (November 2016, together with BSI's Awards). The Belfast event was held in partnership with NSAI (the National Standards Authority of Ireland).

BSI and the United Kingdom Accreditation Service (UKAS) held a joint reception at the House of Lords in June 2016. The event was attended by some 140 civil servants and BSI/UKAS staff and included a keynote speech by Lord Maude.

BSI engaged widely across Government to communicate the role of standardization in support of Government policy objectives. In particular we highlighted the role of standards in promoting trade, improving productivity, accelerating innovation and providing an alternative to regulation. Our engagement included BEIS, DCMS, Cabinet Office and DEFRA as well as visits to Wales, Scotland and Northern Ireland. In November, the Director of Standards presented to the Regulatory Policy Committee.

Following the EU referendum, BSI invested considerable resource into understanding the views of our stakeholders on the role of standards post Brexit. Stakeholders, industry and consumers stressed their desire to remain part of the European standardization system, through continued membership of CEN and CENELEC, in order to maintain the influence of UK experts within this system. We engaged with

Government on a regular basis, particularly with the Department for International Trade and the Department for Exiting the European Union. We recruited additional expertise to support BSI's work on Brexit. We were pleased to support Government by seconding a member of BSI staff to BEIS, full-time, in order to provide expertise on standards and accreditation within Government and by seconding a second member of BSI staff, part-time to the Department for Exiting the EU. We supported BEIS in its event on standards and Brexit.

We also developed our engagement with industry through more formalized relationships with the organizations, particularly trade associations, which nominate experts to BSI committees. We also developed our relationships with cross-sector business organizations such as the CBI, British Chamber of Commerce and the Manufacturers' Organization (EEF).

We also continued to work closely with our "quality infrastructure" and innovation partners, including UKAS, NPL, Innovate UK and the Catapult Centres.

In October 2016, BSI was pleased to be invited by BEIS to join its Working Group on Product Recalls and Safety and to be able to contribute our expertise as the Group sought to develop a standard in this area.

In October, BSI also supported BEIS's International Conference, which shared regulatory best practice between experts from around the world. BSI's Director of Standards Policy gave a presentation to the conference and BSI's Head of Industry and Government Engagement presented at a study visit for delegates to the National Measurement Office.

We responded to numerous Government consultations during the year. Most notably, a comprehensive submission was prepared in response to the Green Paper "Building our Industrial Strategy".

The UK, France and Germany meet each year in a Tripartite conference with their standards and accreditation bodies, government officials and the European Commission. The 2016 meeting was UK-hosted and BSI received grant funding from BEIS in order to organize the meeting on their behalf. The 3-day event was held in Manchester and had a general theme of innovation. Towards of the end of the funding year preparations were underway for the 2017 Tripartite conference in May in Hamburg.

## International projects

Working with donor agencies, our international projects team delivered a range of projects to support standards and quality infrastructures in countries across the globe, including key trading partners, emerging economies and developing countries. While helping to improve fundamental market infrastructure throughout the world, the projects managed by the team also enhance the UK's influence worldwide. The improved infrastructures that result are often in fast-growing regions and our work helps to make markets more accessible to trade with the UK.

*Case study: Improving quality infrastructure, industrial planning, and small business support services in Egypt*
*BSI is leading a 27-month, £4.6 Million EU funded technical assistance initiative aiming to enhance Egypt's economic competitiveness. The project has four thematic engagement areas; strengthening the institutional and technical capacities of Egyptian quality infrastructure institutions, supporting the formulation and implementation of a national industrial development plan, improving the quality of small business support services, and facilitating business-friendly regulatory reform. Collectively, these activities contribute to improved trade facilitation and improved investment flows that ultimately generate more jobs and income for the benefit of the Egyptian people. The Project is directed by the Director of Standards.*

## Education
Our Education Development Manager continued to lead BSI's engagement to promote standardization to university postgraduates and early-career professionals. This included working with education partners to develop and deliver a range of learning activities.

Our engagement included supporting university teaching of standards through our growing 'guest lecture' programme and the creation of a Student Research Programme, offering practical support to masters' level students and their research projects. We developed our plans to expand this work through, for example, collaboration with other European national standards bodies to produce a second volume of a textbook, in partnership with a leading UK business school, for management students on the role of standards in improving business performance.

We held our annual Young Engineering Professionals Conference at the Institute for Engineering and Technology, hosted by BSI's Director of Standards Policy, who welcomed delegates from universities and industry. As in previous years we used the day to confirm the three UK representatives for the IEC Young Professionals Programme, held in October 2016. A similar event is planned for 2017.

## Committee member training
We deliver free training courses for those directly involved in the standards-making process. They cover a broad range of technical and interpersonal subjects that aid new and established committee members in undertaking their roles. Our popular induction course now runs monthly owing to the increased demand generated by the information about it included in our 'welcome' packs, sent to all new UK Technical Committee members. For UK committee members acting as Convenors in international standardization, we offer a one-to-one advisory service for those needing guidance and support, and we have co-hosted events with other standards organizations.

# 4. Support for standards development

> → This funding stream provides support for our standards development programme, including programme management (committee secretary) support for eligible BSI committees, access to international standardization provided for committees by our Committee Service Centre (CSC) and BSI staff travel in support of standards development through the Staff Travel Fund (STF).
>
> → It also supports the Priority Areas programme of work: 10-15 individual projects as agreed with BEIS in relation to HMG priorities/policies.

This funding stream contributes towards activities we undertake to meet UK formal standardization needs and facilitate UK participation in international standardization. These activities include:

- Support via named BSI staff as programme managers for eligible UK national committees and European/international committees (including where the UK holds the secretariat of the latter).
- Support via the BSI Committee Service Centre for some UK national committees, providing a gateway to interested UK parties for participation in European and international standardization.
- The Priority Areas programme: projects that support HMG policy priorities by drawing on a unique mix of BSI standards development activities (e.g. pilots, research, leadership positions, communication tools).

## 4.1.1. General standards development programme

Under the standards development programme scheme rules, funding is applied to non-commercially viable UK standards development committees whose work supports HMG priorities in relation to:

- Government or public interest (i.e. regulation, consumer protection and safety)
- NSB international work programme (i.e. activities the NSB conducts to fulfil its core function on behalf of the UK).
- Specific/urgent industry standardization (i.e. promoting productivity or UK competitiveness in world markets through standardization that protects UK interests, exploits UK expertise and has a large impact on UK industry, including international secretariats)

Non-commercially viable UK committees are those where the use of resources (in the form of our staff supporting the UK committee and, where applicable, any corresponding BSI-run European or international secretariats) exceeds the average annual income generated by sales of standards assigned to that committee.

A review of the work programme and HMG priorities supported by UK committees and their corresponding UK-held secretariats is carried out each year to create a forecast of eligible committees. The use of our staff in support of UK committees (and corresponding BSI-run international secretariats where applicable) is monitored each quarter. At the end of the final quarter of the year, the actual resource employed during the funding year is determined and committees with a main HMG priority confirmed. The list of committees supported with a contribution from BEIS in the year is detailed in Appendix 1.

This funding year 134 technical committees with a named BSI Programme Manager met the criteria for support. The costs of supporting these committees and those managed via the BSI Committee Service Centre (CSC) exceeded the available BEIS contribution.

During 2016/17 the 134 UK standards committees (with named BSI Programme Managers) that received BEIS funding facilitated the publication of 705 new and updated standards. A further 967 standards were published as a result of the access to international standardization facilitated by the CSC.

## 4.1.2. Staff Travel Fund

An allowance for travel is available within the Support for standards development budget. It enables BSI staff to accompany UK committee members to meetings and provide guidance and support that enables UK technical experts and delegates to maximize their influence during overseas meetings, which ultimately benefits the UK. This funding continues to provide valuable support to UK committee members.

*Case study: Building Information Modelling (BIM)*
*Lead Programme Manager Stephanie Kosandiak attended the newly established CEN/TC 442 Plenaries in 2016 and 2017 to support the UK Delegation and monitor developments in the new committee.*

*CEN/TC 442 BIM - Building Information Modelling was established in September 2015 following a feasibility process carried out by a CEN Working Group, to which Ms Kosandiak contributed on behalf of the UK and BSI. The UK, which has widely been seen as a thought leader in BIM adoption and standards development, had, prior to the creation of the CEN committee, decided to advance its BIM standards through ISO. In mid-2015, the key UK BIM standards, BS 1192 and PAS 1192-2 had commenced development in ISO, as ISO 19650-1 and 2.*

As many of the CEN/TC 442 members had not been previously been members of ISO/TC 59/SC 13 Organization of information about construction works, and therefore not aware of its work programme, it has therefore been important for the UK to ensure that they are encouraged to participate in the development of existing ISO standards (under the Vienna Agreement) rather than create conflicting standards, which would result in a duplication of effort and resource. There was concern from the UK that the ISO 19650 standards may be undermined by new CEN deliverables.

*To help this process, the UK proposed a UK-led Business Planning and Strategy Working Group (WG1) under CEN/TC 442, to help align CEN and ISO standardization in this area. WG1 has been successful in securing a parallel CEN/ISO development process for ISO 19650 under the Vienna Agreement, and has developed a process to align terminology across the CEN and ISO BIM standards.*

*Ms Kosandiak also attended the ISO BIM committee (ISO/TC 59/SC 13) Plenary, as well as the UK-led ISO/TC 59/SC 13/WG 13 (responsible for ISO 19650) and Task Forces (TFs) 1 (Terminology) and 2 (Strategy and Planning) meetings, all in Berlin, to support the UK delegation and experts, as well as ensuring a coordinated UK approach, as the UK CEN experts and UK ISO experts are not the same individuals. The UK is also developing the ISO/TC 59/SC 13 Standardization Roadmap (through its leadership of ISO/TC 59/SC 13/TF2), which will be based on findings from UK Digital Built Britain (DBB) research.*

*Ms Kosandiak's attendance at both CEN/TC 442 and ISO/TC 59/SC 13 meetings at this critical time for BIM standards development enables the UK to maintain a coordinated oversight of all of the international and European developments in BIM Standardization, which can inform UK BIM standardization development strategy.*

## 4.2. Priority Areas standards development programme

Under the standards development programme scheme rules, funding is applied to non-commercially viable UK standards development committees whose work supports HMG priorities in relation to standardization supporting Priority Areas (pre-competitive standardization supporting innovation, for example Innovate UK priorities). The funding is applied in the same way as the General standards development programme and the Priority Areas committees are included in the data given above and as part of the committee list provided in Annex 1.

The Priority Areas fund also provides for 10-15 individual projects per year - a varied programme of standardization activity that supports policy priorities and the innovation agenda, ranging from standards strategy and delivery work to awareness-raising activities. All 2016/17 project proposals put forward – including those that proposed funding for a repeated intervention – went through an investment case process.

## 2016/17 Priority Areas programme

| | |
|---|---|
| INN16-01 | Strategic partnership with EPSRC Centre on Through-life Engineering Services – Year 5 |
| INN16-02 | Priority Areas management |
| INN16-03 | Support to eligible Priority Areas committees |
| INN16-04 | Construction & Built Environment Policy Committee - committee leadership |
| INN16-05 | Design for the mind - research |
| INN16-06 | Social value - stakeholder forum & research |
| INN16-07 | Manufacturing supply chain innovation - research |
| INN16-08 | Delivering government policy - research |
| INN16-09 | City resilience - stakeholder forums |
| INN16-10 | UK leadership/influence in Building Information Modelling (BIM) – committee leadership |
| INN16-11 | Agile standards development - research |
| INN16-12 | Fire sector strategic policy – committee leadership |
| INN16-13 | Supporting UK export - research |
| INN16-14 | Proportionate governance of emerging technologies - research |
| INN16-15 | UK-China cooperation – bilateral stakeholder event |

***In detail: INN16-05 Design for the mind***
*The aim of this project was to develop new guidelines for the design of built environments that would support those who have conditions of the mind. These conditions could include those that people have from birth (e.g. autism, dyslexia) and those that are arrive in later life (e.g. dementia, Parkinson's disease). The evidence base for these conditions and the built environment was compartmentalised, with some of it being anecdotal, and some covering either specialist or mainstream environments. By undertaking mapping and co-ordination across different research activities, a basis for setting guidelines could be formed. This project used desk research and interviews to consider the important aspects of 'Design for the Mind' and produce a report covering the aspects that should be included in future guidelines. The resulting guidance will support those who have a responsibility for 'end users', such as Facilities Managers, Architects, Designers, Commissioners and Building Owners. This project was carried out by the Royal College of Art, Helen Hamlyn Centre for Design (HHDC), and supported the themes of the Prime Minister's Challenge on Dementia and the Innovate UK Independent Living Innovation Platform and Long Term Care Revolution.*

*The final report was presented to BSI in December 2016. It identified key themes for standardization and provided recommendations of potential next steps towards setting BSI guidelines. The research provided a clear set of key themes that BSI should consider for future standardization of "Design for the Mind". DCLG has welcomed the report and is considering how this could support their strategy going forward. Several of the research participants have welcomed the study and given their support to future standardization work that BSI will undertake. A summary of the research was published in the Access by Design journal in January 2017.*

*Next steps: we will continue to disseminate the report via various channels, including speaking at various events (e.g. Stirling University, APPG for Autism). We are also in dialogue with DCLG and the GLA regarding leadership and sponsorship for developing Publicly Available Specification (PAS) guidelines. We are planning a submission for Big Lottery Funding (DRILL Project) for a related evaluation study.*

| Support for standards development: spend summary | | | |
| --- | --- | --- | --- |
| **Committee focus area[3]** | **Number of eligible committees** | **Days worked Apr 2016-Mar 2017** | **Funding requirement[4]** |
| **Government or public interest** Regulation, consumer protection, safety | 65 | 1,132 | £635k |
| **Priority Areas** Project programme[5] | | | £406k |
| Innovation, Procurement, Better Regulation, Sustainability, Infrastructure | 58 | 1,693 | £950k |
| **NSB international work programme** Committee Service Centre (CSC) | 406 | 2,742 | £1,538k |
| **Specific/urgent industry standardization** Productivity, UK competitiveness | 11 | 193 | £108k |
| **Total** | **540** | **5,760** | **£3,638k** |

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[3] The total cost and days worked are assigned to one category only, although some committees are eligible in more than one.

[4] The full cost of the support in the areas shown exceeds funding provided, with BSI covering the shortfall.

[5] Funding applied for Priority Areas projects relates to activity delivered in the year. The total value of projects committed to in the year was £300k.

# 5. Support for participation in standardization

## 5.1. Assisted International Travel Scheme (AITS)

→ Financial support to UK delegates for meetings relating to international standardization.

The AITS fund supports UK participants in international standards work by contributing towards their travel costs. The presence of UK delegates at international standards meetings ensures UK interests are represented when international standards are created or updated. Without this assistance many experts and delegates would not be able to participate.

In 2016/17, AITS funding of £1,038k was awarded. The scheme supported 2,424 UK committee members attending international meetings in various roles throughout the funding year.

The fund was used mainly by SMEs (in line with government priorities for SME access). Although this funding is crucial for smaller businesses that lack the resources to attend, it also allows technical staff within larger companies to justify travel costs and time away from their employers.

*Case study: industrial trucks*
*David Goss is the Technical Manager for the British Industrial Truck Association (BITA), the UK's trade association for forklift truck manufacturers and suppliers, component suppliers, and associated services.*

*He is a member of BSI committee MHE/7 Industrial Trucks, and represents the UK at numerous CEN and ISO Technical Committees (TC), sub-committees (SC) and working groups (WG). BITA works in partnership with a range of international organizations, and plays a pivotal role in the industry, helping set and maintain the highest technical standards and working continually to improve forklift operational safety.*

*"For SMEs, a trade association with the support of AITS funding facilitates representation in the standards making process which would otherwise be impossible, meaning the drafting would be dominated by multi-national conglomerates", explains David. "Within SMEs UK ingenuity and innovation is particularly strong, providing niche, bespoke and customised products. Standards, especially if harmonised, must not be design restrictive in their interpretation of legislation and Directives – and SME involvement helps to ensure that that this is not the case."*

*An example of the risk that large companies can pose if they dominate the process was provided during a recent ISO meeting in Stockholm on industrial truck safety.*

*Here a proposal to introduce a Mean Time to Dangerous Failure (MTTFd) was tabled, as a requirement to demonstrate that a satisfactory safety level had been achieved.*

*"This approach requires fatigue life testing, which is expensive for small volume manufacturers. Alternative ways can be used to demonstrate that the necessary Essential Health and Safety Requirements have been achieved and, following a debate initiated by the UK, it was decided that MTTFd did not have to be the only route to conformance, so assisting smaller manufacturers."*

*AITS funding is also useful in other ways: "Being able to attend meetings enables us to provide advance warning of forthcoming changes. This can be just as important as influencing the content of standards. For example, the European requirements for seat belts on industrial trucks are changing through a three-step process starting at the end of 2018. If BITA hadn't been able to attend the relevant SC meeting then most UK manufacturers would not have been aware of this change until publication of the standard at the end of 2017.*

*"However, by issuing a special technical alert we have given UK industry an additional six months to introduce the changes, meaning we have ensured full compliance with EU standards with the minimum disruption to supply chains."*
*David believes that any decline in AITS funding levels, as happened in 2017, will impact BITA's ability to represent the UK at CEN and ISO. "The current funding, whilst a welcome contribution doesn't even cover the flight costs, and budgets are seriously stretched. Reduced attendance would severely impact UK influence, and not just at the SME level. We are frequently the only UK representation in meetings which makes us very conscious, and proud, of our responsibility to protect the interests of the whole of the UK.*

*"For example, when a proposal to introduce a standard set of hand signals for telehandler operations was tabled we notified the Health & Safety Executive, and in consultation with them identified regional differences that could lead to dangerous misunderstandings. This meant we were able to oppose the proposed draft and submit constructive comment on possible changes."*

## 5.2. Consumer & Public Interest Travel/Expenses Fund (CPITEF)

Support for consumer representation in standardization, through funding for
→ Travel costs to ensure the attendance of Consumer Representatives at UK and international standardization meetings
→ Consumer & Public Interest Network (CPIN) meetings
→ Training of Consumer Representatives
→ Awareness-raising publications / background research projects to ensure evidence base

The mission of the Consumer and Public Interest Network (CPIN) is to deliver better standards through an engagement and awareness-raising network and through the representation of consumer and public interest views in BSI's standards committees by:

 - Consumer Representatives (Reps) in standards, from the BSI network
 - Representatives from other consumer and public interest organizations

Throughout the year CPI Reps have been involved in 155 UK and international standards technical committee meetings and working groups. Areas that have benefited from consumer involvement include (by CPIN priority):

Children's interests: Children's luminaires, finger traps, toy safety, fancy dress costumes
Inclusivity: Accessibility of electrical appliances, use of electrical appliances by vulnerable persons
Data privacy: Identification cards, payment cards and personal identification, payment methods, protecting consumers from financial harm
Services: complaints handling, customer services, diving services, mobile payments, tattooing, volunteer tourism
Sustainability: Environmental management, sanitary appliances
Wellbeing - product safety and behavioural risk: e-cigarettes, fire extinguishers, ladders, lasers, textiles, safety signs, nanotechnology, respiratory equipment, mechanical safety, AV safety, robots, power charging systems, societal security

### In detail: Public information symbols
*A Consumer Rep attended a meeting of ISO /TC/145/SC1 Public information symbols. Among the main points discussed was the issue of developing new public information symbols for way guidance in hospitals. The symbols booklet, produced by this and another Consumer Rep and which proved extremely popular, was agreed to be reprinted, as this would be a useful promotional item.*

### In detail: Gas cooking appliances
*A Consumer Rep attended and reported on CEN/TC 49 Gas Cooking Appliances, which met in June 2016 to progress the work of Working Groups (WGs) 1 and 2. At the WG 1 meetings the main discussion was about the revision of EN 30-1-1 'Domestic cooking appliances burning gas – Safety – General', especially clarification of the term*

*'domestic dwelling', the introduction of specific requirements for timers to program and switch off the burner at the end of the cooking cycle and the electrical safety of gas appliances. Concerns about the combustion emissions limit, as referenced in BS EN 30-1-1:2008+A3:2013, were expressed. The committee decided to request more information from the UK National Committee.*

## Events attended and organized

Several meetings were organized/attended by CPIN members and the BSI CPI team during the year:

- In June one BSI staff member and four CPIN members attended the ISO and ISO Consumer Policy Committee (COPOLCO) Joint Services Workshop and ISO COPOLCO Working Group and plenary meetings.

- A CPIN Rep attended the Money Advice Scotland Annual Conference in June, entitled 'Mind the Debt – Who is falling through the gaps?' The conference brings all sectors together, including the Scottish Government, to debate the issues facing, particularly the most vulnerable, members of the community.

- The Consumer & Public Interest Strategic Advisory Committee (CPISAC) met in May. The event included a presentation by BSI on the paper on the Joint Initiative on European Standardization under the Single Market Strategy, as well as discussions on research on what consumer chairs think of the CPIN; deregulation; market surveillance; and the importance of trust and transparency.

- A BSI stand was manned at the Citizens Advice conference by CPI team members and BSI sponsored one of the awards.

- CPI team members attended the Chartered Trading Standards Institute (CTSI) conference. This included a BSI stand and a 'mini- theatre' session on the topic of 'Brexit and Standards'.

- We organized summer and winter All members' CPIN meetings on the themes of 'Trust and consumers' and 'Brexit and consumer standards' respectively.

## Training for Consumer Reps

Two face-to-face training sessions on representing the consumer voice in standards were organized and facilitated by the CPI team and experienced consumer trainers.

## Changes to BSI CPIN

In September 2016, two of the three BSI staff members working in the CPI team left the organization. They were replaced during the course of the year by three new staff members. This represents a significant additional investment in terms of resources. Once the team was in place, they began a thorough review of the CPIN and how it delivers improvements to British Standards through consumer representation. The results of the review will be rolled out in new practices in late 2017/early 2018.

# 6. Appendices

## Appendix 1: List of BSI standards development committees

The table below lists the standards development committees run by BSI, grouped by subject area, and shows which received a BEIS funding contribution towards their running costs in 2016/17 (i.e. non-commercially viable committees whose work supports HMG priorities).

| Subject area | Technical Committee reference | Committee title | BEIS funding contribution 2016-17? | BEIS funding category |
|---|---|---|---|---|
| Built Environment Design | B/562 | Security of buildings | | |
| Built Environment Design | CB/10 | Design Advisory Committee | Yes | Innovation |
| Built Environment Design | CB/500 | Procurement | | |
| Built Environment Design | CB/501 | Flood risk & watercourses | Yes | Sustainability |
| Built Environment Engineering | CB/40 | Built environment engineering | Yes | Innovation |
| Chemicals | AW/81 | Common names for pesticides | | |
| Chemicals | CII/26 | Reagents | | |
| Chemicals | CII/34 | Methods of test for surface active agents | | |
| Chemicals | CII/37 | Fertilisers and related chemicals | | |

| Chemicals | CII/47 | Pyrotechnic articles | Yes | Consumer protection |
|---|---|---|---|---|
| Chemicals | CII/59 | Chemicals for drinking water treatment | | |
| Chemicals | CII/60 | Surface chemical analysis | | |
| Chemicals | CII/61 | Explosives for civil uses | | |
| Chemicals | CII/62 | Treatment of water for boilers | | |
| Chemicals | CII/63 | Chemical spill control | | |
| Chemicals | STI/1 | Pigments | | |
| Chemicals | STI/10 | Test methods for paints | Yes | UK competitiveness |
| Chemicals | STI/14 | Colour measurement and schedules | | |
| Chemicals | STI/21 | Paint systems and surface preparation for metallic substrates | | |
| Chemicals | STI/28 | Paint systems for non-metallic substrates | Yes | Consumer Protection |
| Chemicals | STI/3 | Paints, media and related products | | |
| Chemicals | STI/33 | Electrodeposited and related coatings | Yes | Procurement |

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|---|---|---|---|---|
| Chemicals | STI/34 | Hot dip galvanized coatings | | |
| Chemicals | STI/36 | Vitreous enamel coatings | Yes | UK competitiveness |
| Chemicals | STI/40 | Thermal spraying and thermally sprayed coatings | Yes | Procurement |
| Construction | B/201 | Fences and gates | | |
| Construction | B/204 | Structural design of low rise buildings | | |
| Construction | B/208 | Stairs and walkways | | |
| Construction | B/209 | General building codes | | |
| Construction | B/213 | Trees | | |
| Construction | B/3 | Ad hoc co-ordination group for fibre reinforced cement products | | |
| Construction | B/502 | Aggregates | | |
| Construction | B/503 | Sanitary appliances | | |
| Construction | B/504 | Water supply | | |
| Construction | B/505 | Wastewater engineering | | |

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|---|---|---|---|---|
| Construction | B/506 | Chimneys | Yes | Regulation /Legislation |
| Construction | B/507 | Paving units and kerbs | | |
| Construction | B/509 | Road equipment | | |
| Construction | B/510 | Road materials | | |
| Construction | B/511 | Buildings mobile and temporary | | |
| Construction | B/512 | Ladders | Yes | Safety |
| Construction | B/513 | Construction equipment and plant and site safety | Yes | Safety |
| Construction | B/514 | Access and support equipment | | |
| Construction | B/515 | Wood preservation | | |
| Construction | B/516 | Cement and lime | | |
| Construction | B/517 | Concrete | | |
| Construction | B/518 | Structural timber | | |
| Construction | B/519 | Masonry and associated testing | Yes | Infrastructure |

| Construction | B/520 | Glass and glazing in building | Yes | Safety |
|---|---|---|---|---|
| Construction | B/522 | Structural bearings | | |
| Construction | B/523 | Prefabricated components of reinforced autoclaved aerated concrete and lightweight aggregate concrete with open structure | | |
| Construction | B/524 | Precast concrete products | | |
| Construction | B/525 | Building and civil engineering structures | | |
| Construction | B/526 | Geotechnics | | |
| Construction | B/538 | Doors, windows, shutters, hardware and curtain walling | | |
| Construction | B/539 | Ceramic tiles and other rigid tiling | | |
| Construction | B/540 | Energy performance of materials components and buildings | Yes | Sustainability |
| Construction | B/541 | Wood based panels | | |
| Construction | B/542 | Roofing and cladding products for discontinuous laying | | |
| Construction | B/543 | Round and sawn timber | | |
| Construction | B/544 | Plastering, rendering, dry lining | | |

| Construction | B/545 | Natural stone | | |
|---|---|---|---|---|
| Construction | B/546 | Flexible sheets for waterproofing and water vapour control | | |
| Construction | B/547 | Sealants for building and construction | | |
| Construction | B/548 | Suspended ceilings | | |
| Construction | B/549 | Agricultural buildings and structures | | |
| Construction | B/550 | Raised access floors | | |
| Construction | B/552 | Spectator facilities | | |
| Construction | B/553 | Geosynthetics | | |
| Construction | B/554 | Dimensions and Accuracy - Building construction | | |
| Construction | B/555 | Construction design, modelling and data exchange | Yes | Innovation |
| Construction | B/557 | Construction products - Assessment of dangerous substances | Yes | Regulation /Legislation |
| Construction | B/558 | Sustainability of construction works | Yes | Sustainability |
| Construction | B/559 | Access to buildings for disabled people | | |

| Construction | B/560 | Conservation of tangible cultural heritage | | |
|---|---|---|---|---|
| Construction | B/564 | Noise control on building sites | | |
| Construction | CB/- | Construction & Built Environment Sector Policy and Strategy Committee | Yes | Innovation |
| Construction | CB/-/5 | CPD/CPR Policy | | |
| Construction | CB/-/6 | CEN Construction Sector Policy | | |
| Construction | CB/101 | Service Life Planning | | |
| Construction | CB/20 | Structures advisory committee | Yes | Innovation |
| Construction | CB/203 | Design & execution of steel structures | | |
| Construction | CB/30 | Construction Products Advisory Committee | | Regulation /Legislation |
| Construction | CB/300 | Screeds and in-situ floorings | | |
| Construction | CB/502 | Maritime works | | |
| Construction | CB/503 | Drinking water and wastewater service levels | | |
| Construction | CB/506 | Water reuse | | |

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|---|---|---|---|---|
| Construction | CB/60 | Site operations advisory committee | | |
| Construction | CB/70 | Facilities management advisory committee | Yes | Procurement |
| Construction | CW/35 | Wallcoverings | | |
| Construction | FMW/1 | Facilities management | Yes | Procurement |
| Construction | GME/1 | Preferred numbers | | |
| Construction | GSE/30 | Gas installations (1st, 2nd and 3rd family gases) | | |
| Construction | GSE/4 | Flue pipes and fittings for gas-fired appliances | | |
| Construction | JPEL/64 | Electrical installations of buildings - Joint committee | | |
| Construction | MHE/3 | Cranes and derricks | | |
| Construction | MHE/4 | Lifts, hoists and escalators | | |
| Construction | MHE/6 | Hoists of builders' type | | |
| Construction | PRI/3 | Textile floor coverings | | |
| Construction | PRI/57 | Surfaces for sports areas | | |

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|---|---|---|---|---|
| Construction | PRI/60 | Resilient and Laminate Floor Coverings | | |
| Construction | PRI/70 | Elastomeric seals for joints in pipework and pipelines | | |
| Construction | PRI/81 | Cork | | |
| Construction | PRI/88 | Plastics piping systems | | |
| Construction | PSE/10 | Iron pipes and fittings | | |
| Construction | RHE/17 | Testing of air conditioning units | | |
| Construction | RHE/2 | Ventilation for buildings, heating and hot water services | Yes | Sustainability |
| Construction | RHE/24 | Heating systems and water based cooling systems in buildings | | |
| Construction | RHE/28 | Domestic solid mineral fuel appliances | | |
| Construction | RHE/6 | Air or space heaters or coolers without combustion | | |
| Construction | RHE/9 | Insulated underground pipelines | | |
| Consumer Goods | CH/437 | Electronic Cigarettes & E-liquids | Yes | Consumer protection |
| Consumer Goods | CPL/116 | Safety of motor-operated electric tools | Yes | Safety |

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|---|---|---|---|---|
| Consumer Goods | CPL/59 | Performance of household electrical appliances | Yes | Consumer Protection |
| Consumer Goods | CPL/61 | Safety of household and similar electrical appliances | Yes | Consumer protection |
| Consumer Goods | CPL/705 | Weighing instruments | | |
| Consumer Goods | CPL/72 | Electrical control devices for household equipment and appliances | Yes | Consumer protection |
| Consumer Goods | CPW/172 | Optics and Photonics | Yes | UK competitiveness |
| Consumer Goods | CPW/36 | Cinematography | | |
| Consumer Goods | CPW/4 | British standards for imaging | | |
| Consumer Goods | CPW/42 | Photography | | |
| Consumer Goods | CW/11 | Brushware | | |
| Consumer Goods | CW/15 | Safety of toys | | |
| Consumer Goods | CW/17 | Cutlery and table holloware | | |
| Consumer Goods | CW/217 | Cosmetics | | |
| Consumer Goods | CW/29 | Tableware | | |

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|---|---|---|---|---|
| Consumer Goods | CW/32 | Matches and lighters | | |
| Consumer Goods | CW/47 | Materials in contact with food | | |
| Consumer Goods | CW/51 | Self service trolleys | | |
| Consumer Goods | CW/9 | Cooking and catering containers | | |
| Consumer Goods | FW/0 | Furniture | | |
| Consumer Goods | FW/6 | Flammability performance and fire tests for furniture | | |
| Consumer Goods | PAI/11 | Methods of test for paper, board and pulps | | |
| Consumer Goods | PAI/43 | Graphic technology | Yes | Productivity |
| Consumer Goods | PKW/0 | Packaging | Yes | Regulation /Legislation |
| Consumer Goods | PRI/68 | Hot water bottles | | |
| Consumer Goods | STI/53 | Specifications and test methods for jewellery and horology | | |
| Consumer Goods | TCI/77 | Ropes and cordage and fishing nets | | |
| Consumer Goods | W/- | Consumer Products and Services Sector Policy and Strategy Committee | | |

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|---|---|---|---|---|
| Corporate Governance | CAR/1 | Continuity and Resilience | | |
| Corporate Governance | G/1 | Governance | Yes | Better regulation |
| Corporate Governance | G/2 | Anti procurement fraud | | |
| Corporate Governance | G/3 | Anti bribery | | |
| Corporate Governance | HCS/1 | Human Capital | Yes | Innovation |
| Corporate Governance | RM/1 | Risk management | Yes | Better regulation |
| Electrical Machinery and Components | CPL/34 | Lamps and Related Equipment | | |
| Electrical Machinery and Components | EL/1 | Light and lighting applications | | |
| Electrical Machinery and Components | EPL/80 | Maritime navigation and radiocommunication equipment and systems | Yes | Safety |
| Electrical Machinery and Components | GEL/1 | Electrotechnical Terminology | | |
| Electrical Machinery and Components | GEL/10 | Fluids for electrotechnical applications | | |
| Electrical Machinery and Components | GEL/101 | Electrostatics | | |
| Electrical Machinery and Components | GEL/104 | Environmental conditions, classification and testing | | |

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|---|---|---|---|---|
| Electrical Machinery and Components | GEL/106 | Human exposure to low frequency and high frequency electromagnetic radiation | | |
| Electrical Machinery and Components | GEL/107 | Process management for avionics | | |
| Electrical Machinery and Components | GEL/109 | Insulation co-ordination for low voltage equipment | | |
| Electrical Machinery and Components | GEL/111 | Electrotechnical environment committee | | |
| Electrical Machinery and Components | GEL/112 | Evaluation and qualification of electrical insulating materials and systems | | |
| Electrical Machinery and Components | GEL/15 | Solid electrical insulating materials | | |
| Electrical Machinery and Components | GEL/20 | Electric cables | | |
| Electrical Machinery and Components | GEL/210 | EMC - Policy committee | | |
| Electrical Machinery and Components | GEL/28 | Electrical Insulation Co-ordination | | |
| Electrical Machinery and Components | GEL/3 | Documentation and graphical symbols | | |
| Electrical Machinery and Components | GEL/600 | Earthing | | |
| Electrical Machinery and Components | GEL/603 | Cathodic protection | | |
| Electrical Machinery and Components | GEL/605 | Pressure gauges and switches | | |

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|---|---|---|---|---|
| Electrical Machinery and Components | GEL/606 | Qualification of electrical contractors | | |
| Electrical Machinery and Components | GEL/65 | Measurement and control | | |
| Electrical Machinery and Components | GEL/7 | Overhead electrical conductors | | |
| Electrical Machinery and Components | GEL/70 | Protective enclosures of electrical apparatus | | |
| Electrical Machinery and Components | GEL/81 | Protection against lightning | | |
| Electrical Machinery and Components | JPEL/18 | Electrical installations of ships and of mobile and fixed offshore units | | |
| Electrical Machinery and Components | L/-/90 | Super Conductivity | | |
| Electrical Machinery and Components | L/-/99 | Miscellaneous Standards - Electrical | | |
| Electrical Machinery and Components | PEL/121 | Switchgear and Controlgear and their assemblies for low voltage | | |
| Electrical Machinery and Components | PEL/14 | Power transformers | Yes | Infrastructure |
| Electrical Machinery and Components | PEL/17 | Switchgear, controlgear, and HV-LV co-ordination | | |
| Electrical Machinery and Components | PEL/2 | Rotating electrical machinery | Yes | UK competitiveness |
| Electrical Machinery and Components | PEL/21 | Secondary cells and batteries | | |

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|---|---|---|---|---|
| Electrical Machinery and Components | PEL/23 | Electrical accessories | | |
| Electrical Machinery and Components | PEL/32 | Fuses | Yes | Regulation /Legislation |
| Electrical Machinery and Components | PEL/38 | Instrument transformers | | |
| Electrical Machinery and Components | PEL/78 | Tools for live working | Yes | Safety |
| Electrical Machinery and Components | PEL/85 | Measuring equipment for electrical and electromagnetic quantities | | |
| Electrical Machinery and Components | PEL/96 | Small transformers | | |
| Electronics | AMT/9 | Printed Electronics | | |
| Electronics | EPL/100 | Audio, video and multimedia systems and equipment | | |
| Electronics | EPL/103 | Transmitting equipment for radio communication | | |
| Electronics | EPL/108 | Safety of electronic equipment within the field of audio/video, information technology and communication technology | | |
| Electronics | EPL/278 | Intelligent transport systems | Yes | Infrastructure |
| Electronics | EPL/29 | Electroacoustics | | |
| Electronics | EPL/40X | Capacitors and resistors for electronic equipment | | |

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|---|---|---|---|---|
| Electronics | EPL/46 | Cables, wires and waveguides, radio frequency connectors and accessories for communication and signalling | | |
| Electronics | EPL/47 | Semiconductors | | |
| Electronics | EPL/48 | Electromechanical components and mechanical structures for electronic equipment | | |
| Electronics | EPL/49 | Piezoelectric devices for frequency control and selection | | |
| Electronics | EPL/501 | Electronic Assembly Technology | | |
| Electronics | EPL/51 | Transformers, inductors, magnetic components and ferrite materials | | |
| Electronics | EPL/526 | Road traffic control signals | | |
| Electronics | EPL/66 | Safety of measuring, control and laboratory equipment | Yes | Safety |
| Electronics | EPL/76 | Optical radiation safety and laser equipment | | |
| Electronics | EPL/87 | Ultrasonics | | |
| Electronics | EPL/94 | General purpose relays and reed contact units | | |
| Electronics | EPL/97 | Aeronautical ground lighting | | |
| Electronics | GEL/86 | Fibre optics | | |

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|---|---|---|---|---|
| Electronics | GEL/SB4 | Infrastructure of telecommunications networks | | |
| Energy | CPL/35 | Primary cells | | |
| Energy | ESL/120 | Electrical Energy Storage | | |
| Energy | GEL/105 | Fuel cell technologies | Yes | Innovation |
| Energy | GEL/8 | Systems Aspects for Electrical Energy Supply | Yes | Infrastructure |
| Energy | GEL/82 | Photovoltaic Energy Systems | Yes | Innovation |
| Energy | GSE/-/4 | To brief SFG_U and consider horizontal issues affecting gas utilization | | |
| Energy | GSE/2 | Gas industry terms | | |
| Energy | GSE/25 | Gas Meters | Yes | Infrastructure |
| Energy | GSE/32 | Gas governors | | |
| Energy | GSE/33 | Gas supply | | |
| Energy | GSE/38 | Installation and equipment for LNG | | |
| Energy | GSE/40 | Gas supply equipment for natural gas vehicles | | |

| Energy | L/13 | Smart Grid policy | Yes | Infrastructure |
|--------|------|-------------------|-----|----------------|
| Energy | NCE/2 | Radiation protection and measurement | | |
| Energy | NCE/8 | Instrumentation, Control & Electrical Systems of Nuclear Facilities | | |
| Energy | NCE/9 | Nuclear fuel cycle technology | | |
| Energy | PEL/11 | Overhead Lines | | |
| Energy | PEL/114 | Marine energy - Wave, tidal and other water current converters | Yes | Sustainability |
| Energy | PEL/13 | Electricity Meters | Yes | Infrastructure |
| Energy | PEL/205 | Mains signalling | | |
| Energy | PEL/213 | Cable management | | |
| Energy | PEL/22 | Power electronics | | |
| Energy | PEL/27 | Electroheating | | |
| Energy | PEL/33 | Power capacitors | | |
| Energy | PEL/36 | Insulators for power systems | | |

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|---|---|---|---|---|
| Energy | PEL/37 | Surge Arresters - High Voltage | | |
| Energy | PEL/42 | Testing techniques for high voltages and currents | | |
| Energy | PEL/57 | Power systems management and associated information exchange | Yes | Infrastructure |
| Energy | PEL/73 | Short circuit currents | | |
| Energy | PEL/88 | Wind turbines | Yes | Sustainability |
| Energy | PEL/894 | Remote Meter Reading | Yes | Innovation |
| Energy | PEL/95 | Measuring relays and protection systems | | |
| Energy | PEL/99 | Erection and operation of power installations | | |
| Energy | PSE/17 | Materials and equipment for petroleum, petrochemical and natural gas industries | | |
| Energy | PSE/265 | Carbon Capture Transportation and Storage | Yes | Sustainability |
| Energy | PSE/4 | Identification of piping systems | | |
| Energy | PSE/6 | Hose clips | | |
| Energy | PTI/12 | Petroleum Measurement and Sampling | | |

| Energy | PTI/13 | Petroleum Testing and Terminology | | |
|--------|--------|-----------------------------------|-----|------------|
| Energy | PTI/15 | Natural Gas and Gas Analysis | | |
| Energy | PTI/16 | Solid mineral fuels | | |
| Energy | PTI/17 | Solid biofuels | | |
| Energy | PTI/2 | Liquid Fuels | Yes | Innovation |
| Energy | PTI/20 | Sustainability of bioenergy | | |
| Energy | PTI/7 | Lubricants and process fluids | | |
| Energy | PVE/15 | Storage Tanks for the Petroleum Industry | | |
| Energy | PVE/19 | LPG containers and their associated fittings | | |
| Energy | RHE/31 | Calorific values of fuels; and thermographs | | |
| Energy | SEM/1 | Energy Management | Yes | Sustainability |
| Energy | SMG/1 | Smart Meter Group | Yes | Infrastructure |
| Environment/CSR | BDY/1 | Biodiversity management | | |

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|---|---|---|---|---|
| Environment/CSR | E/- | Engineering Sector Policy & Strategy Committee | | |
| Environment/CSR | E/-/20 | Power engineering steering committee | | |
| Environment/CSR | EH/1 | Acoustics | | |
| Environment/CSR | EH/2 | Air quality | Yes | Regulation /Legislation |
| Environment/CSR | EH/3 | Water quality | Yes | Better regulation |
| Environment/CSR | EH/4 | Soil quality | Yes | Sustainability |
| Environment/CSR | EH/5 | Sludge characterization | Yes | Regulation /Legislation |
| Environment/CSR | EH/6 | Effects of materials on water quality | | |
| Environment/CSR | EH/7 | Climate Change Strategy | | |
| Environment/CSR | H/-/4 | Environmental Testing Programmes | Yes | Regulation /Legislation |
| Environment/CSR | RHE/25 | Solar Heating | Yes | Sustainability |
| Environment/CSR | SDS/1 | Sustainable development Co-ordination Committee | Yes | Sustainability |
| Environment/CSR | SES/1 | Environmental management | | |

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|---|---|---|---|---|
| Fire | FSH/0 | Strategic Policy Group for Fire Standardization | Yes | Safety |
| Fire | FSH/1 | Fire Safety Cables | | |
| Fire | FSH/12 | Fire detection and alarm systems | | |
| Fire | FSH/14 | Fire precautions in buildings | | |
| Fire | FSH/16 | Hazards to life from fire | Yes | Safety |
| Fire | FSH/17 | Fire brigade equipment | Yes | Procurement |
| Fire | FSH/18 | Fixed fire fighting systems | | |
| Fire | FSH/19 | Fire Precautions in Railway Vehicles | | |
| Fire | FSH/2 | Fire extinguishers | | |
| Fire | FSH/21 | Reaction to fire tests | Yes | Safety |
| Fire | FSH/22 | Fire resistance tests | Yes | Safety |
| Fire | FSH/24 | Fire safety engineering | Yes | Safety |
| Fire | FSH/25 | Smoke, heat control systems and components | Yes | Safety |

| Fire | FSH/9 | Fire terminology | Yes | Safety |
|------|-------|------------------|-----|--------|
| Fire | FSS/0 | Fire safety and security systems | Yes | Consumer protection |
| Fire | GEL/89 | Fire hazard testing | Yes | Safety |
| Fire | PH/14 | Firefighters' personal protective equipment | | |
| Fire | PH/4 | Respiratory protection | Yes | Safety |
| Food and Drink, Agriculture | AGE/15 | Equipment for crop protection and application of liquid fertilizer | | |
| Food and Drink, Agriculture | AGE/20 | Powered lawn and garden equipment | | |
| Food and Drink, Agriculture | AGE/29 | Forestry machinery | | |
| Food and Drink, Agriculture | AGE/30 | Irrigation and drainage equipment | | |
| Food and Drink, Agriculture | AGE/32 | Agricultural implements and trailers | | |
| Food and Drink, Agriculture | AGE/6 | Agricultural tractors and forestry machinery | | |
| Food and Drink, Agriculture | AW/-/2 | Food Technical Committee Chairmen | | |
| Food and Drink, Agriculture | AW/1 | Nursery stock | | |

| Food and Drink, Agriculture | AW/10 | Animal feeding stuffs | | |
|---|---|---|---|---|
| Food and Drink, Agriculture | AW/100 | Agriculture and food | | |
| Food and Drink, Agriculture | AW/12 | Sensory analysis | | |
| Food and Drink, Agriculture | AW/15 | Coffee | | |
| Food and Drink, Agriculture | AW/17 | Cleaning and disinfection of dairy equipment | | |
| Food and Drink, Agriculture | AW/20 | Topsoil, other growing media and turf | | |
| Food and Drink, Agriculture | AW/21 | Fruit and vegetables juices | | |
| Food and Drink, Agriculture | AW/22 | Milk tankers | | |
| Food and Drink, Agriculture | AW/234 | Fisheries and Aquaculture | | |
| Food and Drink, Agriculture | AW/24 | Farm milk tanks | | |
| Food and Drink, Agriculture | AW/275 | Food analysis - Horizontal methods | | |
| Food and Drink, Agriculture | AW/307 | Oilseeds, animal and vegetable fats and oils and their by-products | | |
| Food and Drink, Agriculture | AW/32 | Milking machine installations | | |

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| Food and Drink, Agriculture | AW/4 | Cereals and pulses | | |
| Food and Drink, Agriculture | AW/40 | Tobacco and tobacco products | | |
| Food and Drink, Agriculture | AW/415 | Sustainable and traceable cocoa | Yes | Sustainability |
| Food and Drink, Agriculture | AW/425 | Halal Food | | |
| Food and Drink, Agriculture | AW/5 | Chemical analysis of milk and milk products | | |
| Food and Drink, Agriculture | AW/54 | Essential oils | | |
| Food and Drink, Agriculture | AW/6 | Chemical analysis of meat and meat products | | |
| Food and Drink, Agriculture | AW/8 | Tea | | |
| Food and Drink, Agriculture | AW/9 | Microbiology | | |
| Food and Drink, Agriculture | AW/90 | Quality systems for the food industry | | |
| Food and Drink, Agriculture | AW/91 | Allergens | | |
| Food and Drink, Agriculture | CW/158 | Beverage dispensing systems | | |
| Health & Safety | EXL/23 | Explosion and fire precautions in industrial and chemical plant | | |

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|---|---|---|---|---|
| Health & Safety | EXL/31 | Equipment for explosive atmospheres | | |
| Health & Safety | FSM/1 | Forensic Science Processes | Yes | Regulation /Legislation |
| Health & Safety | GME/27 | Safety in school workshops | | |
| Health & Safety | HCM/1 | Health risk assessment of chemicals | Yes | Safety |
| Health & Safety | HS/1 | Occupational health and safety management | | |
| Health & Safety | MCE/23 | Safety of metal producing mills | | |
| Health & Safety | MCE/3 | Safeguarding of machinery | | |
| Health & Safety | PH/1 | Safety, protective and occupational footwear | | |
| Health & Safety | PH/2 | Eye protection | Yes | Safety |
| Health & Safety | PH/3 | Protective clothing | | |
| Health & Safety | PH/5 | Personal Fall Protection | | |
| Health & Safety | PH/6 | Head protection | Yes | Safety |
| Health & Safety | PH/7 | Hearing protectors | | |

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|---|---|---|---|---|
| Health & Safety | PH/8 | Graphical symbols | | |
| Health & Safety | PH/9 | Applied ergonomics | Yes | Safety |
| Health & Safety | RHE/18 | Refrigeration safety | | |
| Health & Safety | RHE/21 | Cryogenics safety | | |
| Health & Safety | RTS/1 | ISO 39001 Road Traffic Safety Management systems | | |
| Health & Safety | SME/32 | Ships and marine technology - Steering committee | Yes | Regulation /Legislation |
| Healthcare | CH/100 | Healthcare and Medical Equipment | Yes | Safety |
| Healthcare | CH/106 | Dentistry | | |
| Healthcare | CH/121 | Anaesthetic and respiratory equipment | Yes | Safety |
| Healthcare | CH/150 | Implants for surgery | Yes | Safety |
| Healthcare | CH/157 | Mechanical contraceptives | Yes | Consumer protection |
| Healthcare | CH/168 | Prosthetics and orthotics | | |
| Healthcare | CH/170 | Surgical instruments | | |

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|---|---|---|---|---|
| Healthcare | CH/172 | Ophthalmic optics | Yes | Safety |
| Healthcare | CH/173 | Assistive products for persons with disability | Yes | Consumer protection |
| Healthcare | CH/194 | Biological evaluation of medical devices | | |
| Healthcare | CH/198 | Sterilization and Associated Equipment and Processes | | |
| Healthcare | CH/205 | Non-active medical devices | Yes | Safety |
| Healthcare | CH/210 | Quality management and corresponding general aspects for medical devices | | |
| Healthcare | CH/212 | IVDs | | |
| Healthcare | CH/216 | Chemical disinfectants and antiseptics | | |
| Healthcare | CH/239 | Rescue systems | Yes | Safety |
| Healthcare | CH/240 | First Aid Kits | | |
| Healthcare | CH/403 | Aesthetic Surgery and Aesthetic Non-Surgical Medical Services | Yes | Safety |
| Healthcare | CH/440 | Adult social care | Yes | Consumer protection |
| Healthcare | CH/62 | Electrical Equipment in Medical Practice | | |

| Healthcare | CH/84 | Catheters and syringes | | |
|---|---|---|---|---|
| Healthcare | RGM/1 | Regenerative medicine | | |
| ICT | AMT/-/2 | Robots and robotic devices | Yes | Innovation |
| ICT | AMT/-/4 | Biomimetics | | |
| ICT | AMT/4 | Industrial data and manufacturing interfaces | Yes | Procurement |
| ICT | AMT/5 | Industrial architectures and integration frameworks | | |
| ICT | AMT/8 | Additive manufacturing | | |
| ICT | ICT/- | Information and communications technology co-ordination and strategy committee | | |
| ICT | ICT/-/1 | Information systems co-ordination | Yes | Infrastructure |
| ICT | ICT/-/2 | Automated Manufacturing Technology Co-ordination ISO/TC184 | | |
| ICT | ICT/-/4 | eBusiness | | |
| ICT | ICT/-/5 | European ICT Committee | | |
| ICT | ICT/-/6 | ICT Accessibility | Yes | Consumer protection |

| ICT | ICT/-/7 | Internet filtering | | |
|-----|---------|--------------------|---|---|
| ICT | IDT/1 | Document Management Applications | | |
| ICT | IDT/2 | Information and documentation | | |
| ICT | IOT/1 | Internet of Things | Yes | Infrastructure |
| ICT | IST/-/99 | Participating IST members | | |
| ICT | IST/12 | Financial services | | |
| ICT | IST/15 | Software and systems engineering | | |
| ICT | IST/15/-/9 | Information technology asset management | | |
| ICT | IST/17 | Cards and personal identification | | |
| ICT | IST/3 | IT Printers and Cartridges | | |
| ICT | IST/31 | Computer graphics, image processing and environmental data representation | Yes | Innovation |
| ICT | IST/33 | IT - Security techniques | | |
| ICT | IST/34 | Automatic identification and data capture techniques | Yes | Innovation |

| ICT | IST/35 | Health informatics | | |
|-----|--------|--------------------|----|----|
| ICT | IST/36 | Geographic information | | |
| ICT | IST/37 | Coding of picture, audio, multimedia and hypermedia information | Yes | UK competitiveness |
| ICT | IST/38 | Cloud Computing and Distributed Platforms | Yes | Productivity |
| ICT | IST/40 | Data management and interchange | | |
| ICT | IST/41 | Document description and processing language | | |
| ICT | IST/43 | Information technology for learning, education and training | | |
| ICT | IST/44 | Biometrics | Yes | Innovation |
| ICT | IST/46 | Sustainability for, and by IT | Yes | Better regulation |
| ICT | IST/5 | Programming languages, their environments and system software interfaces | | |
| ICT | IST/6 | Data communications | Yes | Productivity |
| ICT | IST/60 | IT Service Management and IT Governance | | |
| ICT | IST/70 | Sensor Networks | | |

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|---|---|---|---|---|
| ICT | JTISC/- | Joint TickIT industry steering committee | | |
| ICT | TCT/2 | Analogue telecommunication networks | | |
| ICT | TCT/6 | Digital networks | | |
| ICT | TCT/7 | Telecommunications - Installation requirements | | |
| Infrastructure | CB/50 | Infrastructure | | |
| Lab Equip & Processes | CII/9 | Microbeam analysis | | |
| Lab Equip & Processes | LBI/1 | Laboratory safety and equipment | | |
| Lab Equip & Processes | LBI/16 | Glass electrodes and pH scale | | |
| Lab Equip & Processes | LBI/30 | Cleanroom technology | | |
| Materials | BTI/1 | Biotechnologies | | |
| Materials | CII/24 | Raw materials for the aluminium industry | | |
| Materials | I/- | Miscellaneous standards materials and chemicals | | |
| Materials | I/-/1 | Safety of Candles and Related Products | | |

| Materials | I/-/2 | Brownfield developments | | |
|---|---|---|---|---|
| Materials | I/-/99 | SAP test data | | |
| Materials | ISE/1 | Iron and steel standards co-ordinating committee | | |
| Materials | ISE/100 | Steel, General Issues | | |
| Materials | ISE/101 | Test methods for metals | | |
| Materials | ISE/102 | Methods of Chemical Analysis for Iron and Steel | | |
| Materials | ISE/103 | Structural Steels Other Than Reinforcements | | |
| Materials | ISE/104 | Concrete Reinforcing and Pre-Stressing Steels | | |
| Materials | ISE/105 | Steels for Heat Treatment, Alloy Steels, Free-Cutting Steels and Stainless Steels | | |
| Materials | ISE/106 | Wire Rod and Wire | | |
| Materials | ISE/107 | Steels for Pressure Purposes | | |
| Materials | ISE/108 | Magnetic Alloys and Steels | | |
| Materials | ISE/109 | Coated and Uncoated Flat Products to be Used for Cold Forming | | |

| Materials | ISE/110 | Steel Tubes, and Iron and Steel Fittings | | |
|---|---|---|---|---|
| Materials | ISE/111 | Steel Castings and Forgings | | |
| Materials | ISE/58 | Iron ores | | |
| Materials | ISE/65 | Sintered metal components | | |
| Materials | ISE/NFE/8 | Corrosion of metals and alloys | | |
| Materials | MI/1 | Materials Industries Standards Co-ordination Committee | Yes | Innovation |
| Materials | MI/2 | Bio-based products | Yes | Innovation |
| Materials | NFE/22 | Lead and lead alloys | | |
| Materials | NFE/27 | Tin and tin alloys | | |
| Materials | NFE/34 | Copper and copper alloys | | |
| Materials | NFE/35 | Light metals and their alloys | | |
| Materials | NFE/36 | Copper lead and zinc ores and concentrates | | |
| Materials | NFE/8 | Zinc | | |

| Materials | NTI/1 | Nanotechnologies | Yes | Innovation |
|---|---|---|---|---|
| Materials | PRI/-/1 | GB Co-ordination for International work on plastics standards | Yes | UK competitiveness |
| Materials | PRI/-/2 | GB Co-ordination for International work on rubber standards | Yes | UK competitiveness |
| Materials | PRI/10 | Terminology for rubbers and plastics | Yes | Procurement |
| Materials | PRI/21 | Testing of plastics | | |
| Materials | PRI/22 | Testing and analysis of rubber | | |
| Materials | PRI/24 | Testing of rigid and flexible cellular materials | | |
| Materials | PRI/26 | Burning behaviour of plastics and rubbers | Yes | Safety |
| Materials | PRI/42 | Fibre reinforced thermosetting plastics and prepregs | | |
| Materials | PRI/5 | UK steering committee for CEN/TC 210 GRP tanks | | |
| Materials | PRI/50 | Raw materials (including latex) for use in the rubber industry | | |
| Materials | PRI/52 | Adhesives | | |
| Materials | PRI/54 | Vulcanised rubber compounds | | |

| Materials | PRI/62 | Static thermoplastics tanks | | |
|-----------|--------|------------------------------|--|--|
| Materials | PRI/71 | Flexible cellular materials | | |
| Materials | PRI/72 | Rigid cellular materials | | |
| Materials | PRI/73 | Industrial rubber products | | |
| Materials | PRI/75 | Plastics and rubber film and sheets | | |
| Materials | PRI/76 | Laminated sheet for decorative purposes | | |
| Materials | PRI/80 | Welding thermoplastics | | |
| Materials | PRI/82 | Thermoplastic materials | | |
| Materials | PRI/89 | Plastics recycling | | |
| Materials | PRI/90 | Rubber and rubber products - Environmental aspects | Yes | Sustainability |
| Materials | RPI/1 | Refractory products and materials | | |
| Materials | RPI/13 | Advanced technical ceramics | | |
| Materials | TCI/100 | Co-ordination of activities in textiles and clothing | | |

| Materials | TCI/24 | Physical testing of textiles | | |
|---|---|---|---|---|
| Materials | TCI/33 | Textile machinery | | |
| Materials | TCI/66 | Apparel and interior textiles | Yes | Consumer protection |
| Materials | TCI/69 | Footwear, leather and coated fabrics | | |
| Materials | TCI/80 | Chemical testing of textiles | | |
| Materials | TCI/81 | Colour fastness and colour measurement of textiles | | |
| Materials | TCI/82 | Textiles care labelling, dry cleaning, domestic laundering and drying | | |
| Materials | WEE/3 | Welding of thermoplastic moulded components | | |
| Mechanical Machinery & Components | FME/9 | Fasteners | | |
| Mechanical Machinery & Components | GME/21 | Mechanical vibration, shock and condition monitoring | Yes | Safety |
| Mechanical Machinery & Components | GME/24 | Grease guns and cartridges | | |
| Mechanical Machinery & Components | GSE/19 | Catering equipment (gas) | | |
| Mechanical Machinery & Components | GSE/20 | Non-domestic space heaters (gas) | | |

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|---|---|---|---|---|
| Mechanical Machinery & Components | GSE/22 | Safety and control devices for gas and oil burners and gas burning appliances | Yes | Regulation /Legislation |
| Mechanical Machinery & Components | GSE/24 | Dedicated LPG appliances | | |
| Mechanical Machinery & Components | GSE/26 | Test gases | | |
| Mechanical Machinery & Components | GSE/27 | Automatic gas and oil burners | | |
| Mechanical Machinery & Components | GSE/29 | Gas-fired central heating boilers (domestic and non-domestic) and domestic gas-fired water heaters | Yes | Consumer Protection |
| Mechanical Machinery & Components | GSE/35 | Gas cooking appliances (domestic) | | |
| Mechanical Machinery & Components | GSE/36 | Independent gas-fired space heaters | Yes | Consumer protection |
| Mechanical Machinery & Components | GSE/37 | Gas fired sorption and laundering appliances | | |
| Mechanical Machinery & Components | GSE/42 | Gas fittings and connections including metal hose and hose assemblies | | |
| Mechanical Machinery & Components | MCE/1 | Chains and chain sprockets for power transmission and conveyors | | |
| Mechanical Machinery & Components | MCE/10 | Belts & Pulley Drive | | |
| Mechanical Machinery & Components | MCE/11 | Fluid seals and their housings | | |
| Mechanical Machinery & Components | MCE/12 | Plain bearings | | |

| Mechanical Machinery & Components | MCE/13 | Steam turbines | | |
|---|---|---|---|---|
| Mechanical Machinery & Components | MCE/14 | RIC engines | | |
| Mechanical Machinery & Components | MCE/15 | Hydraulic turbines | | |
| Mechanical Machinery & Components | MCE/16 | Gas turbines | | |
| Mechanical Machinery & Components | MCE/17 | Fans | | |
| Mechanical Machinery & Components | MCE/18 | Fluid power systems and components | | |
| Mechanical Machinery & Components | MCE/19 | Centrifuges | | |
| Mechanical Machinery & Components | MCE/20 | Aerial ropeways | | |
| Mechanical Machinery & Components | MCE/21 | Filters for gases and liquids | | |
| Mechanical Machinery & Components | MCE/22 | Engines for road vehicles | | |
| Mechanical Machinery & Components | MCE/5 | Gears | | |
| Mechanical Machinery & Components | MCE/6 | Pumps and pump testing | Yes | Regulation /Legislation |
| Mechanical Machinery & Components | MCE/7 | Rolling bearings | | |

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| Mechanical Machinery & Components | MCE/8 | Compressors, pneumatic tools, pneumatic machines and vacuum technology | | |
| Mechanical Machinery & Components | MHE/1 | Chains and fittings | | |
| Mechanical Machinery & Components | MHE/12 | Lifting Platforms | | |
| Mechanical Machinery & Components | MHE/14 | Rail dependent storage and retrieval equipment - Safety | | |
| Mechanical Machinery & Components | MHE/15 | Textile slings | | |
| Mechanical Machinery & Components | MHE/16 | Load restraint assemblies | | |
| Mechanical Machinery & Components | MHE/2 | Wire ropes | | |
| Mechanical Machinery & Components | MHE/31 | Automatic power operated pedestrian doors | | |
| Mechanical Machinery & Components | MHE/7 | Industrial trucks | | |
| Mechanical Machinery & Components | MHE/8 | Steel shelving, bins and lockers | | |
| Mechanical Machinery & Components | MHE/9 | Continuous mechanical handling equipment | | |
| Mechanical Machinery & Components | MRE/1 | Mining mechanical equipment and machinery | | |
| Mechanical Machinery & Components | MRE/3 | Mining electrical equipment | | |

| Mechanical Machinery & Components | MTE/1 | Machine tools | Yes | Safety |
|---|---|---|---|---|
| Mechanical Machinery & Components | MTE/12 | Tools for pressing and moulding | | |
| Mechanical Machinery & Components | MTE/13 | Grinding wheels, abrasive tools, paper and cloths, and powders | | |
| Mechanical Machinery & Components | MTE/15 | Hand tools | | |
| Mechanical Machinery & Components | MTE/18 | Tools tips and inserts for cutting applications | | |
| Mechanical Machinery & Components | MTE/20 | Power driven saws | | |
| Mechanical Machinery & Components | MTE/21 | Cartridge-operated fixing tools | | |
| Mechanical Machinery & Components | MTE/23 | Woodworking machines | | |
| Mechanical Machinery & Components | PRI/66 | Rubber and plastics tubing, hoses and hose assemblies | Yes | Safety |
| Mechanical Machinery & Components | PRI/67 | Conveyor belts | | |
| Mechanical Machinery & Components | PRI/69 | Components and fluids for vehicle braking systems | | |
| Mechanical Machinery & Components | PSE/1 | Tubes for water well casing | | |
| Mechanical Machinery & Components | PSE/14 | Bellows assemblies | | |

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| Mechanical Machinery & Components | PSE/15 | Flanges | | |
| Mechanical Machinery & Components | PSE/18 | Industrial valves, steam traps, actuators and safety devices against excessive pressure | | |
| Mechanical Machinery & Components | PVE/-/1 | Pressure equipment briefing committee | | |
| Mechanical Machinery & Components | PVE/1 | Pressure Vessels | | |
| Mechanical Machinery & Components | PVE/10 | Piping systems | | |
| Mechanical Machinery & Components | PVE/17 | Air receivers - General | | |
| Mechanical Machinery & Components | PVE/18 | Cryogenic vessels | | |
| Mechanical Machinery & Components | PVE/2 | Water Tube And Shell Boilers | | |
| Mechanical Machinery & Components | PVE/20 | Cast iron and mild steel sectional tanks | | |
| Mechanical Machinery & Components | PVE/3 | Gas containers | Yes | Regulation /Legislation |
| Mechanical Machinery & Components | PVE/393 | Equipment for storage tanks and filling stations | | |
| Mechanical Machinery & Components | RHE/10 | Heating boilers | | |
| Mechanical Machinery & Components | RHE/12 | Calorifiers | | |

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|---|---|---|---|---|
| Mechanical Machinery & Components | RHE/13 | Oil burning equipment | | |
| Mechanical Machinery & Components | RHE/16 | Performance requirements for control systems | | |
| Mechanical Machinery & Components | RHE/19 | Commercial refrigerated food cabinets (cold room and display cases) | | |
| Mechanical Machinery & Components | RHE/22 | Underfeed stokers | | |
| Mechanical Machinery & Components | RHE/26 | Pressure vessels for refrigerating systems | | |
| Mechanical Machinery & Components | RHE/30 | Heat exchangers | | |
| Mechanical Machinery & Components | RHE/4 | Testing of refrigerant compressors | | |
| Mechanical Machinery & Components | RHE/7 | Expansion vessels using an internal diaphragm | | |
| Mechanical Machinery & Components | TDW/4 | Technical Product Realization | | |
| Metrology | CPI/113 | Hydrometry | Yes | UK competitiveness |
| Metrology | CPI/29 | Humidity and temperature conditioning requirements | | |
| Metrology | CPI/30 | Measurement of fluid flow in closed conduits | Yes | Infrastructure |
| Metrology | LBI/37 | Particle characterization including sieving | | |

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|---|---|---|---|---|
| Metrology | LBI/50 | Fine Bubble Technology (FBT) | Yes | Innovation |
| Quality | AUS/1 | Revision of ISO 19011 | | |
| Quality | CAS/1 | Conformity assessment | | |
| Quality | DS/1 | Dependability | Yes | Safety |
| Quality | KMS/1 | Knowledge management systems | Yes | Productivity |
| Quality | MS/1 | Work study and organization and methods | | |
| Quality | MS/2 | Project, programme and portfolio management | Yes | Productivity |
| Quality | QS/1 | Quality management and quality assurance procedures | | |
| Quality | RMI/1 | Reference Materials | | |
| Quality | SS/1 | Statistical terminology and symbols | | |
| Quality | SS/2 | Statistical Interpretation of Data | | |
| Quality | SS/3 | Application of statistical methods in standardisation | | |
| Quality | SS/4 | Statistical Process Management | | |

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|---|---|---|---|---|
| Quality | SS/5 | Acceptance sampling schemes | | |
| Quality | SS/6 | Precision of test methods | | |
| Quality | SS/7 | General metrology, quantities, units and symbols | | |
| Quality | TS/1 | Terminology | | |
| Safety | CW/1 | Safety of child use and child care products | Yes | Safety |
| Safety | SW/136 | Sports, playground and other recreational equipment | Yes | Consumer protection |
| Safety | SW/65 | Children's playground equipment | | |
| Security | AMS/1 | Asset management | | |
| Security | DEF/1 | Defence standardization | Yes | Procurement |
| Security | GW/1 | Electronic security systems | | |
| Security | GW/2 | Secure storage of cash, valuables and data media | Yes | Consumer protection |
| Security | GW/3 | Private Security Management & Services | | |
| Security | GW/8 | Security Managements Systems in Complex Environments | Yes | Procurement |

| Security | SSM/1 | Societal security management | Yes | Infrastructure |
|----------|-------|------------------------------|-----|----------------|
| Services | DES/1 | Design for All | | |
| Services | FSW/1 | Funeral services | | |
| Services | IMS/1 | Innovation management | Yes | Innovation |
| Services | MS/6 | Methodologies for business process improvement using statistical methods | | |
| Services | S/- | Management Systems Sector Policy and Strategy Committee | | |
| Services | SVS/- | Service standardization strategy group | | |
| Services | SVS/0 | Customer service - Fundamental principles | | |
| Services | SVS/1 | Business Services | | |
| Services | SVS/11 | Transport services | | |
| Services | SVS/12 | Brand Valuation Services | | |
| Services | SVS/14 | Pest management services | | |
| Services | SVS/15 | E-services | | |

| Services | SVS/18 | Health and wellbeing services | | |
|----------|--------|-------------------------------|---|---|
| Services | SVS/19 | Personal and beauty care services | | |
| Services | SVS/2 | Tourism services | Yes | Consumer Protection |
| Services | SVS/20 | Automotive Services | | |
| Services | SVS/3 | Market research | | |
| Services | SVS/4 | Postal services | | |
| Services | SVS/6 | Financial services | Yes | Better regulation |
| Services | SVS/7 | Property Services | | |
| Services | SVS/8 | Community Services | | |
| Services | SVS/9 | Recruitment services | | |
| Transport | ACE/1 | International and European Aerospace Policy and Processes | | |
| Transport | ACE/12 | Aerospace fasteners and fastening systems | | |
| Transport | ACE/57 | Air cargo and ground support equipment | | |

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|---|---|---|---|---|
| Transport | ACE/58 | Environmental and operating conditions for aircraft equipment | | |
| Transport | ACE/6 | Aerospace avionic electrical and fibre optic technology | | |
| Transport | ACE/61 | Metallic materials for aerospace purposes | | |
| Transport | ACE/65 | Non-metallic materials for aerospace purposes | | |
| Transport | ACE/66 | Aerospace electromagnetic compatibility | | |
| Transport | ACE/68 | Space systems and operations | Yes | Infrastructure |
| Transport | ACE/69 | Aerospace hydraulic systems, fluids and components | | |
| Transport | AUE/-/1 | International work on road vehicles | Yes | Safety |
| Transport | AUE/1 | Vehicle lighting and signalling | | |
| Transport | AUE/12 | Ergonomics (Road vehicles) | Yes | Safety |
| Transport | AUE/13 | Commercial and public service vehicles | | |
| Transport | AUE/14 | Motor cycles and mopeds | Yes | Safety |
| Transport | AUE/15 | Safety related to vehicles | | |

| Transport | AUE/16 | Data Communication (Road Vehicles) | | |
|-----------|--------|-----------|-----|-----|
| Transport | AUE/17 | Vehicle security | Yes | Productivity |
| Transport | AUE/18 | Tanks for the transport of dangerous goods | Yes | Safety |
| Transport | AUE/20 | Vehicle on-board diagnostics, repair and maintenance information | Yes | Safety |
| Transport | AUE/3 | Renovation of tyres for motor vehicles | | |
| Transport | AUE/32 | Electrical and electronic components and general system aspects (Road vehicles) | | |
| Transport | AUE/4 | Tyres and wheels for motor vehicles | Yes | Regulation /Legislation |
| Transport | AUE/7 | Automobile occupant restraint systems | Yes | Safety |
| Transport | AUE/9 | Automobile details and accessories | | |
| Transport | GEL/9 | Railway Electrotechnical Applications | | |
| Transport | GME/25 | Cycles | | |
| Transport | GME/33 | Small craft | Yes | Safety |
| Transport | PEL/69 | Electric vehicles | Yes | Sustainability |

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|---|---|---|---|---|
| Transport | RAE/1 | Railway Applications | | |
| Transport | RAE/2 | Railway Applications - Track | | |
| Transport | RAE/3 | Railway Applications - Rolling Stock Products | | |
| Transport | RAE/4 | Railway Applications - Rolling stock systems | | |
| Transport | TW/1 | Freight containers and swap bodies | | |
| Welding | WEE/-/1 | Briefing committee for welding | | |
| Welding | WEE/1 | Definitions and symbols for welding | | |
| Welding | WEE/17 | Metal-arc welding of steel | | |
| Welding | WEE/18 | Gas welding and cutting appliances | | |
| Welding | WEE/19 | Brazing and braze welding | | |
| Welding | WEE/2 | Destructive Testing of Welds | | |
| Welding | WEE/21 | Pipework welding | | |
| Welding | WEE/28 | Inert-gas arc welding | | |

| Welding | WEE/29 | Resistance welding | | |
|---------|--------|--------------------|---|---|
| Welding | WEE/36 | Qualification of welding personnel and welding procedures | | |
| Welding | WEE/37 | Acceptance levels for flaws in welds | | |
| Welding | WEE/39 | Welding consumables | | |
| Welding | WEE/40 | Health and safety in welding | Yes | Safety |
| Welding | WEE/42 | Prefabrication Primers for Welding | | |
| Welding | WEE/43 | Welding of steel for concrete reinforcement | | |
| Welding | WEE/45 | Welding of stainless steel | | |
| Welding | WEE/46 | Non-destructive testing | | |
| Welding | WEE/6 | Electric arc welding equipment | | |

## Appendix 2: Projects carried out during the year for other HMG bodies

| Government department | Project | 2016/17 status |
|----------------------|---------|----------------|
| BEIS (Construction Directorate) | Building Information Modelling (BIM): license fee agreement to cover soft copy downloads of 6 documents (BS 1192:2007, BS 1192-4:2014, | Live during year |

| | BS 8536:2015, PAS 1192-2:2013, PAS 1192-3:2014, PAS 1192-5:2015) from the BSI website | |
|---|---|---|
| BEIS (Construction Directorate) | Fund to support the maintenance of BIM Level 2 standards, delivery of additional domestic and international guidance | Live during year |
| BEIS | Revision of PAS 1192-2:2013, Specification for information management for the capital/delivery phase of construction projects using building information modelling | Live during year |
| BEIS | Revision of PAS 1192-3:2014, Specification for information management for the operational phase of assets using building information modelling | Live during year |
| BEIS | PAS 183, Smart cities – Guide to establishing a decision-making framework for sharing data and information services (Phase 1) | Completed in year |
| BEIS | PAS 184, Smart cities – Developing project proposals for delivering smart city solutions – Guide (Phase 1) | Completed in year |
| BEIS | Amendment No. 1 to PAS 91:2013, Construction prequalification questionnaires | Live during year |
| BEIS | PAS code of practice for product corrective action | Started in year |
| BEIS, HSE, Environment Agency | PAS 1192-6, Specification for collaborative sharing and use of structured hazard and risk information for health and safety | Started in year |
| CPNI | PAS 170, Low energy impact test method for vehicle security barriers | Live during year |
| CPNI | PAS 301, Civilian armoured vehicle – Automotive test methods | Live during year |
| CPNI | PAS 7010, specification for the secure destruction of sensitive and classified material | Live during year |
| CPNI | Standards watch service | Live during year |
| CPNI | Standards mapping of vehicle information systems, safety and security | Started in year |

| CPNI | Preparation of ISO seed document on vehicle security barriers (based on IWA 14-1 and IWA 14-2) | Started in year |
|---|---|---|
| CPNI | PAS 185, Smart cities – Specification for establishing and implementing a security-minded framework | Started in year |
| DECC | Revision of PAS 2030:2014, Improving the energy efficiency of existing buildings – Specification for installation process, process management and service provision | Started & completed in year |
| DECC | Revision of PAS 2031:2015, Certification of energy efficiency measure (EEM) installation services | Started & completed in year |
| DEFRA | Revision of PAS 96:2014, Guide to protecting and defending food and drink from deliberate attack | Started in year |
| Digital Catapult | Personal data – Communication of how an organization uses personal data shared online – Specification | Live during year |
| European Marine Energy Centre (EMEC) | Fund BSI to run the secretariat of IEC/TC114 'Wave Energy' (new agreement for July 2013 – July 2016) | Completed in year |
| Environment Agency | Fund BSI to run the secretariat of ISO/TC113/SC2 'Hydrometry - Notches, weirs and flumes'. | Live during year |
| Foreign & Commonwealth Office (FCO) | Harmonizing civil nuclear standards between China and the UK | Started & completed in year |
| Foreign & Commonwealth Office (FCO) | Using UK expertise to develop standards around the development of 'smart cities' in China that are compatible with UK standards | Started & completed in year |
| Foreign & Commonwealth Office (FCO) | Delivering the Smart City leadership programme to support sustainable urban development in India | Started & completed in year |
| Future Cities Catapult | PAS 183, Smart cities – Guide to establishing a decision-making framework for sharing data and information services (Phase 2) | Started in year |

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|---|---|---|
| Future Cities Catapult | PAS 184, Smart cities – Developing project proposals for delivering smart city solutions – Guide (Phase 2) | Started in year |
| Green Construction Board | PAS 2080, Carbon management in infrastructure – Specification | Completed in year |
| High Value Manufacturing Catapult (via Manufacturing Technology Centre) | Standards roadmap to accelerate the capability and competitiveness of the UK's digital manufacturing supply chains | Started in year |
| HS2 Ltd | PAS 8811, Temporary works – Client procedures – Code of practice | Completed in year |
| HS2 Ltd | PAS 8810, Tunnel design – Design of concrete segmental tunnel linings – Code of practice | Completed in year |
| HS2 Ltd | PAS 8820, Construction materials – Alkali-activated cementitious material – Specification | Completed in year |
| Transport Systems Catapult | Strategy document highlighting gaps and priorities for new and existing standards to help accelerate development of the UK connected and autonomous vehicles (CAV) industry | Started in year |